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COUNTRY	USSR (Kalinin Oblast.)		DATE DISTR 10 November 1952
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THE THE OF THE I	NAMES INFORMATION AFFECTING THE NATIONAL DEFENSE THE WISH PROBLEM OF THE 18 SECTIONS 703 IL CODE, AS RESIDED. THE PROBLEMS SIDE OF REVEL ENTRY TO COMPANY OF THE PROBLEMS OF REACH AW THE REPRODUCTION OF THIS FORE IS PROBLETED.	THIS IS UNEVA	ALUATED INFORMATION

- iranch Office No 1 of Plant No 88, a design and project office for rocket weapons, was located on Gorodomlya Island in Lake Seliger near Ostashkov (57-08N, 33-05E). The office, just as Plant No 88 in Moscow/Foolipki, was subordinate to the Ministry of Armanents in Moscow. Some of the Soviets employed there were connections between the Ministry of Armanents and this Ordinance Office. In this connection, he pointed out that the Germans living on Gorodomlya Island were kept
 - 2. The branch office in the island consisted of design bureaus, some laboratories, and a small workshop. Only German publications dated from W. II and, to a lesser extent, working at the branch office.
 - Besides Soviets, the personnel assigned to the office consisted of about 175 Germans, who were deported to the islami from Bleicherode on 22 October 1966, Only 20 of the deported Germans had previously worked in the field of rocket versions, the other engineers had come to Bleicherode only after the war, either from universities or from the Arado Aircraft Plant. They were to some extent forced by Gracettrup. Some of these persons were quartered in a camp near hoscow-Bolshevo, were able to furnish any information on the work in Plant No 60, lone of them soon transferred to Ostashkov, where some engineers arrived as early as 1947. Since possibility of productive work in the field of rocket weapons, the Soviets, after some time, assigned individual engineers research missions in other fields.
 - h. The first order, which was to be completed by 1949, consisted in projects on longdistance rockets designed after the principle of the A-2 set. The G-4 through 0.9

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that they were not nounted in shell casin's; they represented so-called cantilever that they were not nounted in shell casin's; they represented so-called cantilever said (selbsttragende Geraete), and the walls of their fuel containers were simplicaneously to form the outer skin. This was an idea of the experts from the Arado Plant. The reducts were to be powered by an improved version of the power plant installed in the A-4. The new power plant was designed with a static thrust of about 35 tons and was to be constructed in several nodifications. It was planted to build sets with four combustion units and an auxiliary combustion wrat in abbition. The latter combustion chamber was to be designed for a pressure of 60 atmospheres and was to be used as a cruisin; unit after the fuel of the four main power units was consuled, desearch was also conducted on a combustion unit retatable in a plane by 1160, the rotating mechanism being the old serve unit developed at the Askasia Plant. This serve unit worked on the jet thrust principle, According to source, all the designs made were rather poor and had almost no practical value.

- 30 1049, the Soviets realized that the work done at Ostashkov was futile and deceaded that a preliminary design be made for a rocket capable of a range of 10,000 km with pay load. Three days were available for the completion of this design. The project submitted was developed under the supervision of Herr Groettrup. The rocket projected was to be brought to a speed of Mach 3 by means of a true rocket motor and was then to travel to its target at a considerably loss speed obtained by means of an air stream engine. However, the Jerman experts declared therealves unable to construct the rocket as designed. The Soviets considered this a lock of efficiency on the side of Merr Groettrup and consequently relieved him of his accomment.
- Consider order given to the group of engineers working in Ostastkev was the construction of an AA rocket based on the design of the former Berman asserfull set. Due time had to be devoted to a new compilation of the construction data require:

 And this set. The control system offered the greatest difficulties because no real except was available in this field. Therefore, it was resolved to utilize the old Victoria type ground control system which operated on the lasts of the location data transmitted by the rocket. However, the order for the design of an AA rocket and an an withdrawn by the Soviets as the project did not provide any reality.
- 7. In the Ballistics Department (Sector 1) of Branch Office 1, the Ballistic data for the data through 3-9 sets and the antiaircraft rocket were determined. Fost of the efforts were centered on the recovery of the data previously calculate in Jerusny the herodynamics Department (Sector 2),
- By the Mari Umpfenbach, a very capable engineer. One of these problems centered around the driving turbines for the pumps which were to be built in the form of an embassion gas turbine utilizing the exhaust gas from the combustion chamber. The cocket was to be started with compressed air, and the turbine of the pumps as well decisive question chambers were designed mutually to step up their power putout. The crebium also remained unsolved, because competent experts were not available, with holes and laid around the embastion chamber at the place where it had the carried estimates because competent as blod from a take provided carried to the find around the embastion chamber at the place where it had the find was to be injected onew. The following initial values were laid down by the Soviets:

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Gas imput temporature: and cas temperature in the line leading to the turbine:

1,800°C

200°J.

The alcohol injection pressure was to be tested in the 3 to 60 atmosphere range. For the tests to be conducted, only one Compol type gas analysis apparatus was available, by rather primitive experiments it was determined that the gas constants hardly changed so that from this side unalcasant surprises were not to be expected. The first fuel to be injected was alcohol. Out coquently, kerosene, naphthaline, and Diesel oil were tocted. The Soviets were greatly interested in the utilization of kerosene and did not set great store by the development of a process which would have made it possible to increase the concentration of the othyl alcohol from 75 percent to 85 percent. The excessive degree of coking occurring with the utilization of kerosone was eliminated by the injection of chloride of barium, which had been dissolved in water. The physical and chemical properties of the horosene delivered by the Soviets varied greatly. Available for the experiments was a one-ton oven for the development of gas and the turbine of an A-h set. In late 1950, when the development work had reached a point that the first practical results were imminent, the Soviets storged this project, apparently because they intended to complete it themselves. All the capable engineers who had been employed on the project, including Umpfenbach himself, were convinced that the Soviets would not be able to complete the project successfully in the near future. While working in the Power Plant Department, source was ordered to develop a method of decarbonizing an oven, which had used a nitric acid-korosene mixture. At the same time, he was to submit proposals on how this coking process was to be prevented.

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but had to abandon it again in the fall of this year whom this work was still in its initial phase,

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the amount of energy actually available at the end of the laval type jet. The problem to be solved was whether the various dissociation constants retain their original values or whether a loss of power occurs. The first experiments made with an oven of 20 kg thrust had to be altardoned because of the destruction of the oven. The work undertaken by source had no result,

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the only productive work was done at the Electrical Deport ont Govern 4) of Branch Office 1. On the lasis of plans Coveloged by Or lans Hoch, a so-called sammodell (path model) was built for stability tests on the rocket, to be solducted in various flying positions. Preparations for the construction of such a solal were already made at Eleicherode. The set was operated by a modumicelectrical device, its main component being an electrical integrator. The values for the take-off weight, air throughput, initial acceleration, besides all aerodynamic data and the data on the location of the center of gravity wer laid down in newwice, while the control deflection remained to be determined, as long as the stability indicator was in zero position, the stability for the Plight position sciented was guaranteed. Five units of this model were built, i.e. four three-axle sets and one five-axio set, two axies of the set transmitting rotating forces. The seto, which were procured from institutes and universities, sensured about 1.5 x 3.7 x 1.8 moters. Although the Soviets were enthusiastic about them, the German engineers were in agreement that their precision left much to be desired.

- The group of engineers working on radio control devices at the Electrical Department (Sector 4) was not in a position to do productive work; the same applied to the organization working on measuring equipment.
- 12. The work of the Construction Department (Sector 5) was hampered by the shortese of maturnals and mork places. Although the personnel as igned to this department was culse efficient, they were faced by the greatest difficulties, even is they only had to construct minor experimental units.

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the repliens were investigated, and methods were worked out how to department (Some ?), the repliens were investigated, and methods of pretecting steel against the reportion were also investigated. Other research work conducted at this security concerned itself with the best method of electroplating light. The with copper, bource furthermore studied the ignition presentes of the sent types of fuels and other related problems.

- The My late 1952, the Soviets had apparently lost all interest in the activities of tranch Office leadle secret work was discontinued and only non-selection projects were undertaken after that date. Source and several other filmeers worked on a sine transmitter (Simmsgebor) for various frequencies.
- It achieves or Larch 1951, a boviet commission appeared at the installation and selected some engineers with experiences in the field of radio control devices. This group of engineers, which was headed by Dr Dr Hans Hoch, was moved to beneave, where they had to sign contracts binding them to stay another four years in the U.S.b.t. Letters received from the lain Post Office in Loscow, post office box No 908, in Earch 1952, indicated that this group of engineers was exampled with an organization working under Dr Buschbeck (fina).
- Then asked the question whether he knew anything of a firing range for rockets howeval dither near Tashkent or italingrad, in 1247 or 1948, Kapustin at that time was a miserable village surrounded by deserted stoppe land. Ask sets were launched there. Technical installations were not available, and only

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	first of Paragonal of Share	of Contract of the Contract of
	to the second second second state to the second sec	ch Office to 1 of Plant to 83 in Ostachtov
72		istry of Armaments in Moscows
	Saldukov (Inu) Baidukov7	In 1949 or 1990 he was replaced by
	Vasilyov (fmu)	
	Professor Popedonsov (Inu) who left the dimistry and became an independent engineer
2	s depresentatives of the Ord	nance Office:
	Ticutement Colonel Tyulin	(1m)
1	Colonel Korolov (Inu)	both officers visited Ostasakov several times.
	Person al of Franch Office	#o 1
3.	Director	
	Fedor Giuliuvich	25X1
	(Yulyuvich or Zhyulyuvich ?) Sukomilinny	
140	Chaof engineers, directly s	Mbording test to the director
	Reach-Kotsyndinskiy(Inu),	25X1
	Kurganov (i'nu)	
	, and a second	
	Pavol Vasilyev	
5.	Department I, the secret description of the passible corint section and the place of the calc female Soviet labor	part ont, was subordinated to the chief engine rs. This sport section, the mail section, the archives, the notographic laboratory. The personnel included two male core and two German clerks.
25X1	Meterian skiy (fau)	was chief of Department I
ر ز آ	lesigners, also assign	
25X1	TPV A.B.	oviet lizison of Dicer for the German designers
25X1	Goodcase Baginoor	
25X1	Holset Groettrup	
25X1	er Jans Boch	
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	ke Talklomar Tolff	1
7	There were eight work sect	ions (Sectors) subordinated to the chief designers.
ð.	Dector 1, in charge of bal	listic calculations
		TTO OTO CATCHIA STONS
25X1	Dr Taldemar Wolff	chief, a mathematician. who was in charge of ballistics with priodrich Krupp 60 in dasen.
25X1	Dr aerner Schulz	n make 11 1
	· · · · · · · · · · · · · · · · · · ·	qualifications. To returned to demany in April 1952.
25X1	De lans deichardt	
	er construction	a very capable mathematician who returned to Germany in April 1952.
25X1	ir Schlier (Inu)	an astronomist.
	Carlie Johannes	proviously teacher at a grammer school, returned in April 1952.
•	Honde, Bail	
		a supply manager, who returned in April 1960.
	Graduate Angineer	
	adroom (metaer	a mathematician, who returned in April 1012
25X1	line in chiose Nyrach	a calculator when cather a
		at Ost shkov.
	Source did not remember the Two Novice staff included:	names of the other Jornans forking at Sector 1.
0EV4	Wandishev (Sau)	
25X1		mathematician.
	Africation (irm)	a female mathematician without outstanding capabilities,
9	backer 2, in charge of aerod	ynamics,
25X1	Or Jester Ablhring	ahi of
23/1		thief; with technical knowledge. He returned to Germany in April 1952.
2EV4	Blembaichenkov (linu)	Ahlbring's Soviet deputy,
25X1		the most intelligent and meanest of the Soviets
	Or West Labourz	from the rado aircraft plant.
25X1	West Your Karl Heins	
	a dicease por	former member of the DVL.
25X1	and robe ougineer	
	The state of the Company of the Comp	physicist, brother-in-law of lillring

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25X1	Or Hammer 9 Albert	philologist, who returned to Germany in april 1952.
25X1	Ingineer Wenzel, Hans	returned to Commany in April 1952.
25X1	Engineer Jurschik (inu) /probably Kurt Juschik/	returned in Auril 1952.
25X1	Voss v Otto	in April 1952.
25X1	angine or Hoinz (?) Zielinny	
25X1	Aminour Hennig (fnu)	returned in April 1952,
25X1	Professor Helmut Priese	Institute of Technology, who returned there in April 1952.
25X1	Solowew (fnu)	the most important Soviet
25X1	There were more Germans wor	king hero
Ž.(Ť.,	Sector 3, in charge of powe	r units for rockets.
	Dr Umpfenbach , Karl	chief, the only German who was an export in this
	Or Angineer Heinrich Zeise	•.
25X1		
3.4 3	bector h, in charge of electricities and perdent sections.	tric assemblies, was subdivided into three
	Ingine or Gord Duellar	chief of the section in charge of Pahorodelle (path models). He returned to Germany in April 1252.
	Wigimenr Proikschat, Fritz	chief of the section in charm of radio controls.
·	raicusor Alheim Schnetz	chiaf of the section in charge of management answeres, returned in April 1952.

Spector h also included the following personnel:

- Injineer Theodor Housann Craduate Engineer Hangs, Karl Foresan Hans Eucller Handieraft Noise, Fred

10. Sector 5 in charge of the test stands and other construction works

chief, who returned in April 1952

Baca r

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Sacra

the Sector 7, worked in the field of chemistry

We show Franz Fatthes chief, an early SiD member who returned in April 1952.

Radusto Angineor Cashari Siormand

worked only temporarily in sector 7 and returned to derivacy in April 1952

Mr. Sector 9, the so-called workshop

Sogimeer Apol, Erich

chief, a can in his early thirties, the was released in April 1952 and will probably no to fildau in

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3% Octor 11, the construction department

Wednate Engineer Plass,

chief, who had worked on the manufacture of airlrames at the Arado Aircra.t (land

16. Other Jermans working at Ostashkov included:

Herman

dr falter Quessel

a mathematician for oscillations and vibrations

for hourt daymus

a physicist and expert for gyroscopic instruments

Francessor Or Theo behmidt

a physicist

Sa Sager dritz Viebach

launching expert for A-4 missiles

comeks (inu)

craftsman

aregmeer loblialist . Kurt

caspino e Poble . Max

Financer, Willi

17. Aperts working at the Kapustin test field included:

Wichaelly Modifiahrt, Meholz, Dr Moch, Pohle, Primmer and dr Modifi

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lormont:

sajor General Gaidukov was reported to have been chief of a special technical commission in Bleicherode during the fall of 1946. . . In deventer 1949, Professor Vasilyev was mentioned by Prayda as chief of the Flantof the suscentialic research Institute for Flying Equipment. A Colonel Vacilyev was an unreal in mid-1948 as officer in charge of television in the Seriet lone of the say.

From Energy Propodents to visit the first time. A Colonel Consideration was to 1965 and 1966, reported as a wester of Technical Office to U in Karlshorst. The place in Reicherode was subordinated to this office. In 1965 and 1966, a libraral Foreigns and a Colonel Cynlin were reported as members of the Loviet staff of Greektrups department. In 1966, a Lieutenant Colone Karalov was considered a mean which, under the supervision of Viebach (196), noved to Cardhausen to protite Ipring rocket weapons. It is assumed that Karalyev and Caralov are identical.